Interactional Application No PCT/US2005/001630

CLASSIFICATION OF SUBJECT MATTER PC 7 A61K38/19 A61F A61P35/04 G01N33/50 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 A61K A61P Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, EMBASE, BIOSIS, CHEM ABS Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. P,X WO 2004/045532 A (CHIRON CORPORATION) 1-64 3 June 2004 (2004-06-03) the whole document X DATABASE WPI 1 - 64Section Ch, Week 200171 Derwent Publications Ltd., London, GB; Class B04, AN 2001-613857 XP002347324 & JP 2001 233784 A (MORINAGA MILK IND CO LTD) 28 August 2001 (2001-08-28) abstract -/--X Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: \*T\* tater document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-ments, such combination being obvious to a person skilled "O" document referring to an oral disclosure, use, exhibition or document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 29 September 2005 17/10/2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016 Winger, R

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	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
ategory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	WO 98/39449 A (CHIRON CORPORATION; DWARKI, VAVARANI; MANNING, WILLIAM, C; KOTHS, KIRS) 11 September 1998 (1998-09-11) page 36, line 22 - page 37, line 28; claim 1; example 5 page 47, line 17 - page 48, line 5	1-64 26,27, 43,49
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	paragraphs '0028!, '0094! – paragraph '0114!	26,27, 43,49
	WO 90/01942 A (GENETICS INSTITUTE, INC) 8 March 1990 (1990-03-08) page 1, line 27 - page 2, line 9; examples 2-4	1-64
	EP 0 955 365 A (CHIRON CORPORATION; REGENTS OF THE UNIVERSITY OF CALIFORNIA; REGENTS 0) 10 November 1999 (1999-11-10) cited in the application examples 9-12	1-64
	MIYAMOTO TAKESHI ET AL: "Differentiation and function of osteoclasts." THE KEIO JOURNAL OF MEDICINE. MAR 2003, vol. 52, no. 1, March 2003 (2003-03), pages 1-7, XP002347322 ISSN: 0022-9717 abstract; figure 5	1-64

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 1-7, 12-25, 28 and 29 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this International application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
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4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest  The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

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